



Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### Whetstone Creek

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#### Water Body Segment at a Glance:

<b>County:</b>	Wright
<b>Nearby City:</b>	Hartville
<b>Length of impaired segment:</b>	13 miles
<b>Pollutant:</b>	Low Dissolved Oxygen
<b>Source:</b>	Rural Nonpoint Sources
<b>Water Body ID:</b>	1504



**Scheduled for TMDL development: 2015**

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#### Description of the Problem

##### Designated beneficial uses of Whetstone Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation

##### Use that is impaired

- Protection of Warm Water Aquatic Life

##### Standards that apply

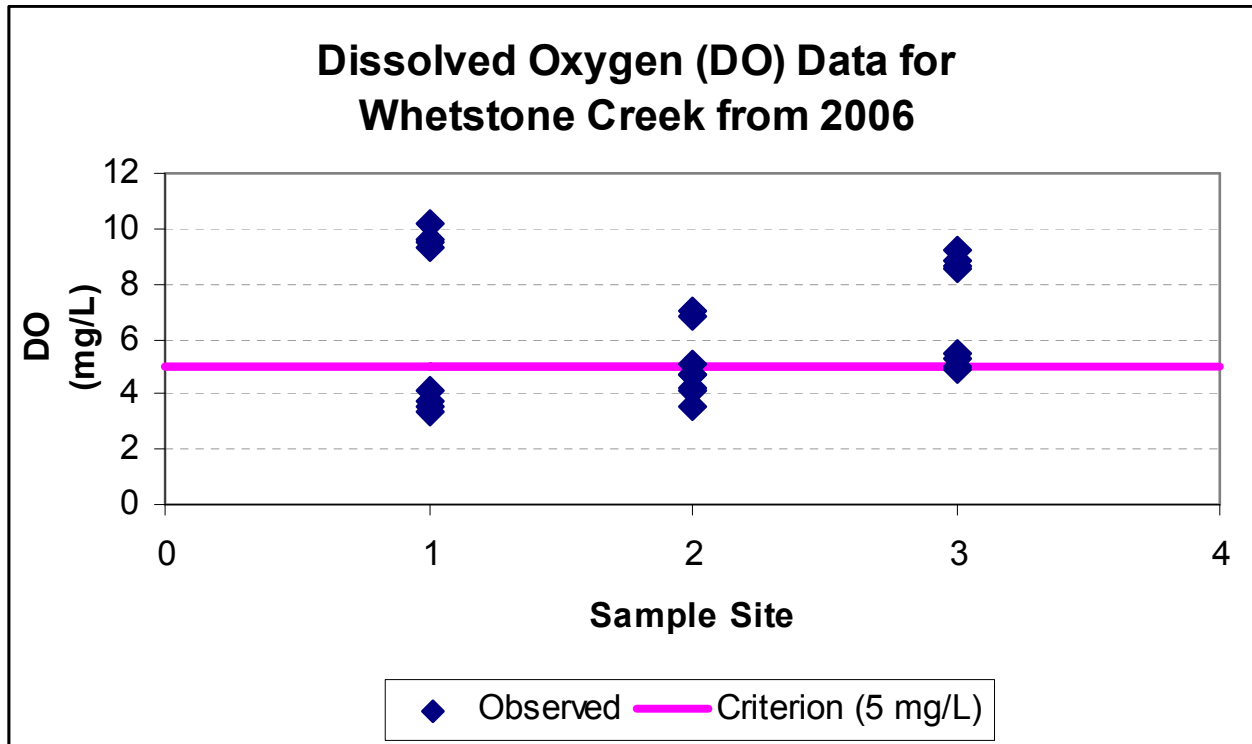
- In the Missouri Water Quality Standards, found in 10 CSR 20-7.031 Table A, the criterion for dissolved oxygen, or DO, in streams is a minimum of 5 mg/L (milligrams per liter or parts per million).

##### Background information and water quality data

Whetstone Creek is a rural stream that flows north to join the Gasconade River in Wright County, Missouri. The low dissolved oxygen impairment is based on data collected by the department in 2006

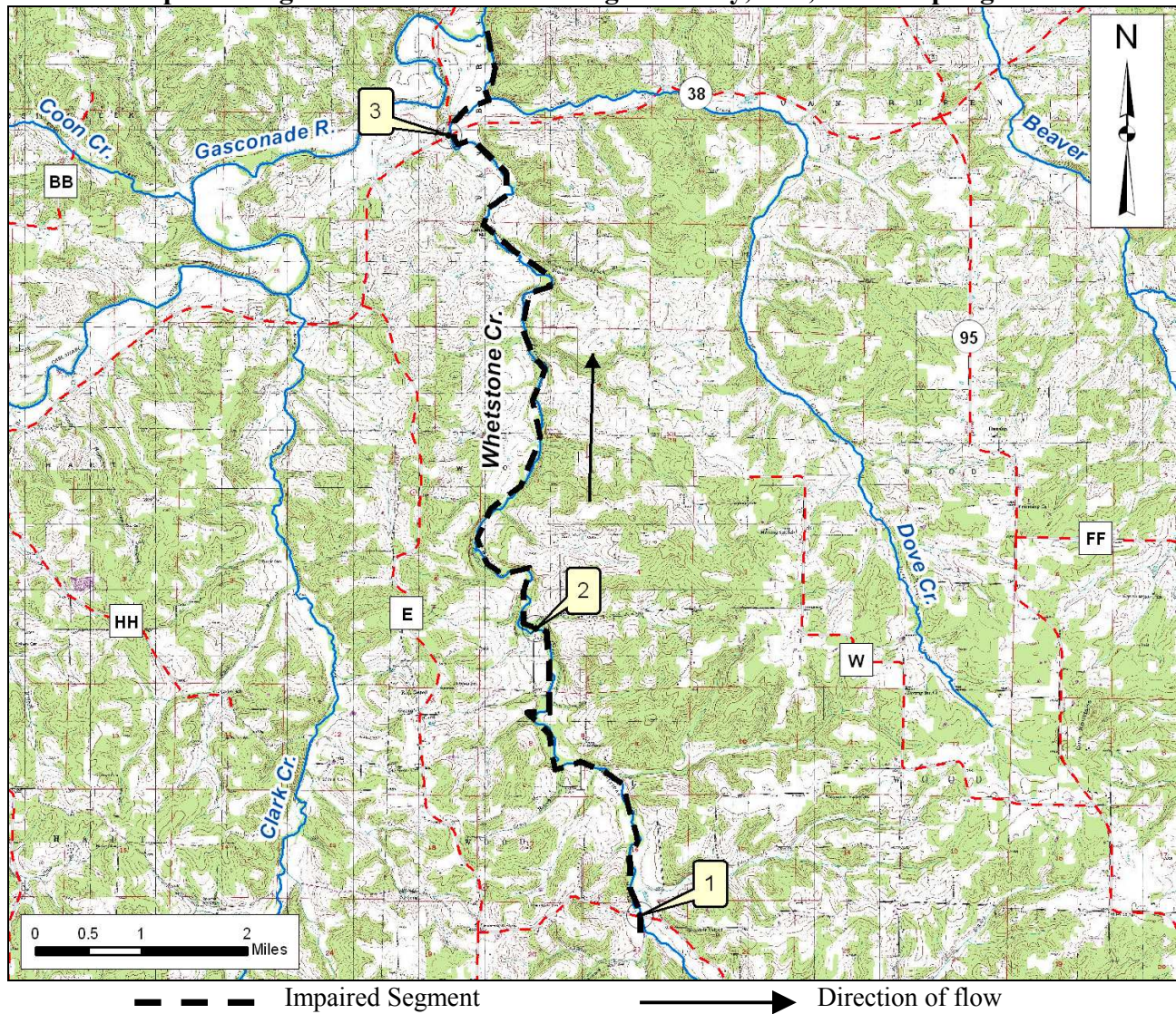
Water quality conditions in Whetstone Creek are not protective of aquatic life because the dissolved oxygen levels are too low. Dissolved oxygen is important as many aquatic organisms require high levels of oxygen to survive. For dissolved oxygen, if more than 10 percent of measurements in a

water body fail to meet the water quality criterion that water body is judged to be impaired. In the case of Whetstone Creek, nine of 24 samples (37.5 percent) did not meet the water quality criterion. While it is not known exactly what is causing the dissolved oxygen to be low, the usual suspects are excessive nutrients and sediment. In a rural setting, nutrients come from fertilizer, both commercial and manure, leaking septic systems and “direct deposit” from animals (both domestic and wild) defecating in the stream. The sediment can come from runoff from unvegetated fields and construction sites and erosion from inadequately protected riparian, or buffer, zones along creeks.





**Map Showing Whetstone Creek in Wright County, Mo., and Sampling Sites**



**Sample Sites**

- 1 – Whetstone Cr at State Highway N
- 2 – Whetstone Cr at Owens Rd
- 3 – Whetstone Cr at State Highway 38

**For more information call or write:**

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Water Protection Program

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